

IN THE CLAIMS

1. (Original) A combustor for a gas turbine comprising:

a combustor body having an aperture;

a casing enclosing said body and defining a passageway therebetween for carrying compressor discharge air;

at least one injection tube for supplying an amount of said compressor discharge air into said combustor body, said injection tube is disposed between said aperture and through said casing; and

a collar disposed at said passageway, wherein said collar surrounds said injection tube so that said injection tube passes through said collar and a gap is disposed between said collar and said injection tube, said collar having a plurality of openings.

2. (Original) The combustor of claim 1, wherein said plurality of openings are arranged and sized so that a predetermined amount of said compressor discharge air is constantly supplied into said combustor body.

3. (Original) The combustor of claim 1, wherein each of said plurality of openings are about 0.6 centimeter to about 1.3 centimeter in diameter.

4. (Original) The combustor of claim 1, wherein each of said plurality of openings are arranged in equally spaced rows around said collar.

5. (Original) The combustor of claim 1, wherein said collar having a first end and a second end, said first end mounted to said combustor body and said second end extending to said injection tube.

6. (Original) The combustor of claim 5, further comprising a retaining clip that connects said collar to said body at said first end.

7. (Original) The combustor of claim 1, further comprising a space between an outer diameter of said aperture of said body and an end of said injection tube.

132231-1
GS1-0031

8. (Original) The combustor of claim 1, wherein said aperture is larger than an outer span of said injection tube.

9. (Original) The combustor of claim 1, wherein said collar includes a straight section that is mounted to said body and a sloped section that extends to said injection tube.

10. (Original) The combustor of claim 9, wherein said straight section includes said openings and said sloped section includes said openings.

11. (Original) The combustor of claim 1, further comprising a catalytic reactor disposed in said body for controlling pollutants released during combustion.

12. (Original) The combustor of claim 1, further comprising a reaction zone within said combustor body for main combustion of fuel and air.

13. (Original) The combustor of claim 1, wherein said amount of said compressor discharge air from said at least one injection tube is variable and said plurality of openings supplies a fixed amount of said compressor discharge air into said compressor body.

14. (Currently Amended) A combustor for a gas turbine comprising:

a combustor body having an aperture;

a casing enclosing said body and defining a passageway therebetween for carrying compressor discharge air;

at least one injection tube for supplying a variable amount of said compressor discharge air into said combustor body, said injection tube is disposed between said aperture and through said casing; and

means for supplying a fixed amount of said compressor discharge air into said body, said means for supplying said fixed amount of said compressor discharge air

disposed circumferentially around said at least one injection tube for supplying a variable amount of said compressor discharge air.

15. (Original) A combustor for a gas turbine comprising:

a combustor body having an aperture;

a casing enclosing said body and defining a passageway therebetween for carrying compressor discharge air;

at least one injection tube for supplying a variable amount of said compressor discharge air into said combustor body, said injection tube is disposed between said aperture and through said casing; and

a collar disposed at said passageway and mounted to said combustor body and extending to said injection tube, said collar configured to supply a fixed amount of said compressor discharge air to said body.

16. (Currently Amended) A method for quenching combustion in a gas turbine comprising: a combustor body having an aperture; a casing enclosing said body and defining a passageway therebetween for carrying compressor discharge air; at least one injection tube disposed between said aperture and through said casing; and a collar disposed concentrically around said at least one injection tube, the method comprising:

supplying a fixed amount of said compressor discharge air into a said combustor body ~~of a combustor of the gas turbine through said collar;~~ and

supplying a variable amount of said compressor discharge air into said combustor body through said at least one injection tube, said fixed amount of said compressor discharge air ~~is~~ disposed concentrically around said variable amount of said compressor discharge air.